

## ABSTRACT

The method for stabilizing the voltage of an AC generator with varying (alternating) rotor speed is characterized in that the voltage generated by an AC generator is maintained constant when the rotor speed changes. The control is carried out without the use of electrical contacts by means of a high-frequency pulse generator. The transformer of the high-frequency pulse generator is divided. The rotating part is provided on the rotor axis and the other part is stationary outside the rotor. Both parts are separated by an air gap. Deviations from a preset output voltage are controlling the pulse generator whose pulses are transmitted by the transformer to the power section of the rotor. The complete power section consisting of the coil and the electronic switch is arranged on the rotor so as to transmit only control currents without physical contact.

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